Transfer Learning

(X(4))

Image vecangnition

pre-training

(X(4))

(X(4))

Pre-training

(X(4))

(X(

- input A and B have the same input X
- you have a lot more data for task A than task B
- lower level feature from A Could be helpful for Learning B.

Multi-task learning

When muHi-tosk learning makes sense.

- Training on set of tasks that could benefit from having shared lower-level feature.
- Usuauy: Amount of data you have for each task is quite Similar.
- Can train a big enough neural network to do well on all the tasks